## INTERNATIONALSEARCHREPORT

International application No PCT/JP2005/018397

## CLASSMICATION OF SUBJECT MATTER

Int Cl H02M3/155 (2006. 01)

According to International Patent Classification (IPC) or to both national classification and IPC

FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

Int Cl H02M3/155 (2006 01)

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Published examined utility model applications of Japan 1922-1996

Published unexammed utility model applications of Japan 1971-2005

Registered utility model applications of Japan 1996-2005

Published registered utility model applications of Japan 1994-2005

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

## C DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No
Y A	JP 2002-262554 A (LINEAR TECHNOLOGY CORP) 13.09.2002, Fig. 2 & US 2002/0135338 Al & GB 2376091 A & GB 2407882 A & DE 10205069 A & TW 550444 B	1 2-12
Y A	WO 2003/058804 A2 (KONINKLIJKE PHILIPS ELECTRONICS N.V.) 17.07.2003, Claim 1, Fig.1 & JP 2005-514896 A & US 2005/0116748 A1 & DE 10200917 A & EP 1472781 A	1 2-12
Y A	JP 2002-543728 A (KONINKLIJKE PHILIPS ELECTRONICS N.V.) 17.12.2002, Claim 1 & US 6393572 Bl & EP 1090343 A & WO 2000/067101 A & CN 1302397 A	1 2-12

considered to be oiparacular relevance earlier application or patent but published on or after the international filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but later than the priority date claimed  Date of the actual completion of the international search  Name and mailing address of the ISA/JP  Authorized officer  understand the principle or theory underlying the invention of document of particular relevance, the claimed invention or other when the document is taken alone "Y" document of particular relevance, the claimed invention or other when the document of particular relevance, the claimed invention or other when the document of particular relevance, the claimed invention or other such document of particular relevance, the claimed invention or other when the document of particular relevance, the claimed invention or other when the document of particular relevance, the claimed invention or other when the document of particular relevance, the claimed invention or other when the document of particular relevance, the claimed invention or other when the document of particular relevance, the claimed invention or other when the document of particular relevance, the claimed invention or other when the document of particular relevance, the claimed invention or other when the document of particular relevance, the claimed invention or other when the document of particular relevance, the claimed invention or other when the document of particular relevance, the claimed invention or other when the oconsidered novel or cannot be considered nove				
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